## PATENT COOPERATION TREATY

From the	HING ALTHORITY	•				
INTERNATIONAL SEARCHING AUTHORITY  To: GEOFFREY L. MELNICK G.E. EHRICH (1995) LTD. 11 MENACHEM BEGIN STREET RAMAT GAN, ISRAEL 52 521		PCT  WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
				(PCT Rule 43bis.1)		
			Date of mailing (day/month/year) 26 APR 2007			
Applicant's or agent's file r	eference		FOR FURTHER ACTION See paragraph 2 below			
28204						
International application No		national filing date		Priority date (day/month/year)		
PCT/IL04/00704		igust 2004 (01.08.2		31 July 2003 (31.07.2003)		
International Patent Classifi	• ,	national classificat	ion and IPC			
IPC: G01N 33/48( 2006 USPC: 702/19	6.01)					
Applicant	·	<del></del>				
RAMOT AT TEL AVIV U	VIVERSITY LTD					
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1. This opinion contains in	ndications relating to	the following item	s:			
<b>□ □ □</b>						
Box No. [	Basis of the opinion	n				
Box No. II Priority						
Box No. III	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV	Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI	Certain documents	cited				
Box No. VII	Certain defects in the	he international app	olication			
Box No. VIII	Certain observation	s on the internation	nal application			
2. FURTHER ACTION	V					
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Name and me!!!	Esha ICA/IIC	I Date of 1	tallegt:	Authorized of		
Name and mailing address of the ISA/US  Mail Stop PCT. Attn: ISA/US  Commissioner for Patents P.O. Box 1450  O2 April 2007 (C		ion of this opinion 02.04.2007)	Shubs (Joe) Zhou			
Alexandria, Virginia 22313-1450				Telephone No. (571)-272-1600		

Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/IL04/00704	

Box No	o. I Basis of this opinion
	egard to the language, this opinion has been established on the basis of:
	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
	egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ion, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
I	table(s) related to the sequence listing
b.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
	Interest and adjusting to this reaction, for the purpose of course.
	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additio	onal comments:
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/IL04/00704

В	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	The d	questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be strially applicable have not been examined in respect of:		
		the entire international application		
	$\boxtimes$	claims Nos. <u>159-164</u>		
	beca	use:		
	$\boxtimes$	the said international application, or the said claim Nos. 159-164 relate to the following subject matter which does not require an international search (specify):		
		The claims are drawn to dataset or medium comprising the same, which are nonfunctional descriptive material.		
		the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify):  the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):		
		no international search report has been established for said claims Nos		
		a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:		
		furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.		
		furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.		
		pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b).		
		a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.		
		the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.		
		See Supplemental Box for further details.		

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL04/00704

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Stater		arrations subbouting such statement			
	Novelty (N)	Claims NONE	YES		
	Novelly (N)	Claims 1-158	NO		
	Inventive step (IS)	Claims NONE	YES		
		Claims 1-158	NO		
	Industrial applicability (IA)	Claims 1-158	YES		
	Industrial applicability (IA)	Claims NONE	NO		
		131.2			
2 Citatio	ons and explanations:		· · · · · · ·		
applying a sequence, homologic statistical See pages Claims 1-	a significance test on the partial overlaps, thereby extracting significant patterns from es from a dataset including searching for analysis to the overlaps and defining sign 3390-3396.	rehing for partial overlaps between the sequence and defining a most significant partial overlap as on the dataset. Altschul et al. teach a method of its overlaps of the sequence with a plurality of seque ificant homologies and displaying the alignments de 33(4) because the claimed method can be used	a significant pattern of said dentifying significant sequence nces in GenBank, applying with the probability of E-values.		